

Operating instructions Washer-Extractor WS 5243 WS 5323

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The washer-extractor must be installed by
an approved service technician or
authorised Service Dealer.

This booklet is part of a set which comprises:

- Profitronic programming instructions
- Programme surveys
- Detergent dispensing charts

The set is supplied with the machine.

Warning and Safety instructions

Read the operating instructions through before using this machine for the first time. This way you will avoid the risk of accidents or damage to the machine.

Appropriate use of the machine

■ This washer extractor is only intended for items of laundry which have not been impregnated with dangerous or inflammable substances.

■ Only machine wash articles which have a care label stating they are suitable for machine washing.

■ Temperatures, holding times, suds ratio and disinfecting agents must meet the requirement of national Health and Safety guidelines for disinfecting procedures and the required levels of microbiological hygiene for infection prophylaxis.

■ If items being processed have to meet particular quality standards, e.g. particulate free rinse results, the procedure must be validated and the user must make regular quality checks to ensure appropriate standards are being maintained.

■ On no account must solvents of the kind used for dry cleaning be used in this machine. **Danger of fire or explosion.**

■ Never use or store petrol or petroleum based substances or any easily inflammable substances near the machine. Do not use the machine lid as a resting place. **Danger of fire or explosion.**

Technical and electrical safety

■ The electrical safety of this appliance can only be guaranteed when continuity is complete between the appliance and an effective earthing system which complies with local and national regulations. It is most important that this basic safety requirement is regularly tested by a qualified electrician. The manufacturer cannot be held responsible for the consequences of an inadequate earthing system.

■ Do not damage, remove or bypass the safety features and controls on the machine.

■ Where there is any damage to the machine or to the cable insulation the machine must not be used until it has been repaired.

■ Any removable outer panels must be in place, and all moving or electrical parts shielded before the machine is operated.

■ The machine is only completely isolated from the electricity supply either when switched off at the wall isolator, or the mains fuse is withdrawn from the socket.

■ Repairs to machines operating with electricity or steam should only be undertaken by a suitably qualified service engineer to ensure safety. Unauthorised repairs could be dangerous.

■ Faulty components should only be exchanged for Miele original spare parts. Only when these parts are fitted can the safety standards of the machine be guaranteed.

■ The very best materials are used in the manufacture of this machine, and every care is taken in its manufacture. However, with time, deterioration of parts can occur, especially with rubber components such as hoses. This should be borne in mind if operating the machine without supervision. Check the inlet hoses regularly for signs of deterioration and replace in good time, to avoid leaks and subsequent damage.

■ Local regulations regarding regular inspection and maintenance of this machine must be observed. [[In Germany this machine is subject to laundry regulations UVV (VBG7y) Sections 36 and 37, which stipulate that washer extractors with a kinetic energy of more than 1500 Nm must be checked once a year by a competent person for their operational safety and the results entered in a test log (book) supplied with the machine for the German market, and which must be kept at the place of operation and be available for inspection.]]

Use of the machine

■ Never allow children to play in, on or near the washer extractor, or to operate it themselves. Please supervise its use by the elderly or infirm.

Warning and Safety instructions

Remember that the door porthole glass can become hot during the operation of the machine. Do not let children touch it .

Always make sure the drum is stationary before reaching in to remove washing. Reaching into a moving drum is extremely dangerous.

It is the operator's responsibility to ensure that the standard of disinfection in thermal as well as chemo thermal procedures is maintained (in accordance with § 18 IFSG) by carrying out suitable validation tests. These procedures should be checked on a regular basis, either thermo-electrically using loggers, or bacteriologically with bio indicators. The operator must pay particular attention to maintaining the correct parameters in the procedure, including temperature and with chemo thermal programmes the chemical concentration used. Disinfection programmes must not be interrupted, as this can have a limiting effect on the disinfection result.

Water used for washing and rinsing must not be used as drinking water. It must be discharged into a proper sewerage system.

The machine should only be operated unsupervised when there is a floor drain (gully) in the direct vicinity of the machine.

Chlorine or agents containing chlorine are corrosive, and can under certain conditions lead to irreparable damage to components.

Disinfecting and cleaning agents often have compounds containing chlorides in them. If these agents dry on to stainless steel surfaces, the residual chlorides will attack the steel and can cause rusting. To protect your machine from rust damage, we recommend only using chloride free disinfecting and cleaning agents for washing and disinfecting programmes and for cleaning stainless steel surfaces of the machine itself. If you are not sure about a particular agent, contact the manufacturer of that agent for advice.

If you accidentally spill an agent containing chlorides on the machine it should be rinsed off with water and dried using a soft cloth.

Always follow the instructions of the chemical manufacturer when using cleaning agents and special application chemicals. Only use such chemicals for the purpose and

in the situation specified by the manufacturer in order to avoid the danger of adverse chemical reactions and material damage. If in doubt check the suitability of the product for use in this machine with the manufacturer before using it.

Where a chemical cleaning agent is recommended on technical application grounds, this does not imply that the manufacturer of the machine takes responsibility for the effect of the chemical on the material of the items being cleaned or on the machine. Please be aware that changes in formulation, storage conditions etc., which may not be publicised by the chemical producer, can have a negative effect on the cleaning result.

Proprietary dyes, dye removers and descaling agents may only be used in this machine if the manufacturer expressly states that they are suitable for use in a washing machine. Follow the manufacturer's instructions on using them.

On no account use high pressure cleaners or hose down the machine.

Use of accessories

Accessory parts may only be fitted when expressly approved by Miele. If other parts are used, guarantee, performance and product liability claims may be invalidated.

Disposal of old machines

When disposing of an old machine first make it unusable. Disconnect from all services, cut off the cable and the plug from the cable.

Make the door lock inoperative, so that children cannot accidentally shut themselves in. Make appropriate arrangements for the safe disposal of the machine.

All personnel working with this machine must be fully trained in all aspects of its use and safety.

Keep these instructions in a safe place.

Caring for the environment

Disposal of the packing material

The transport and protective packing has been selected from materials which are environmentally friendly for disposal and can normally be recycled.

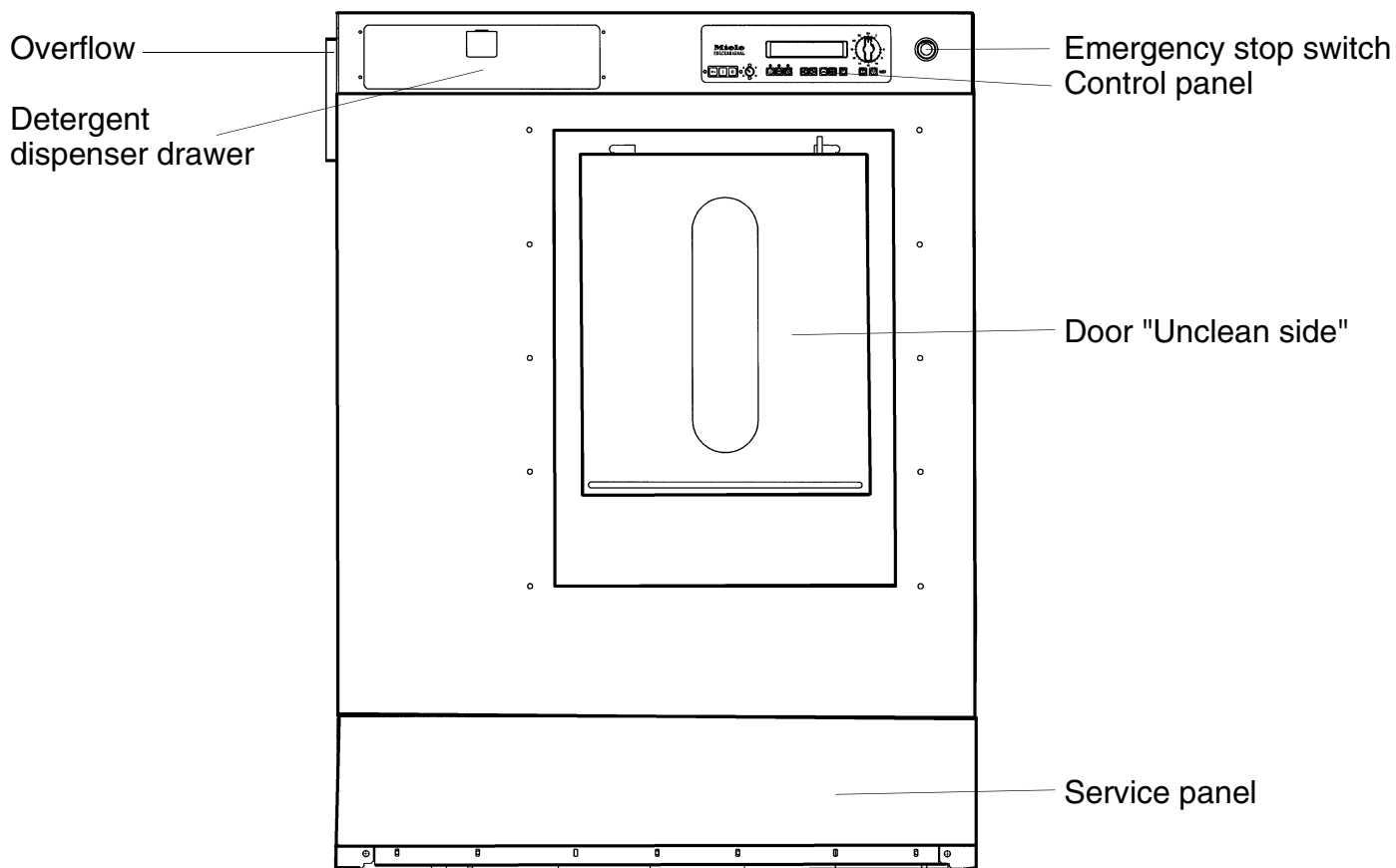
Ensure that any plastic wrappings, bags etc. are disposed of safely and kept out of the reach of babies and young children. Danger of suffocation!

Rather than just throwing these materials away, please ensure they are offered for recycling.

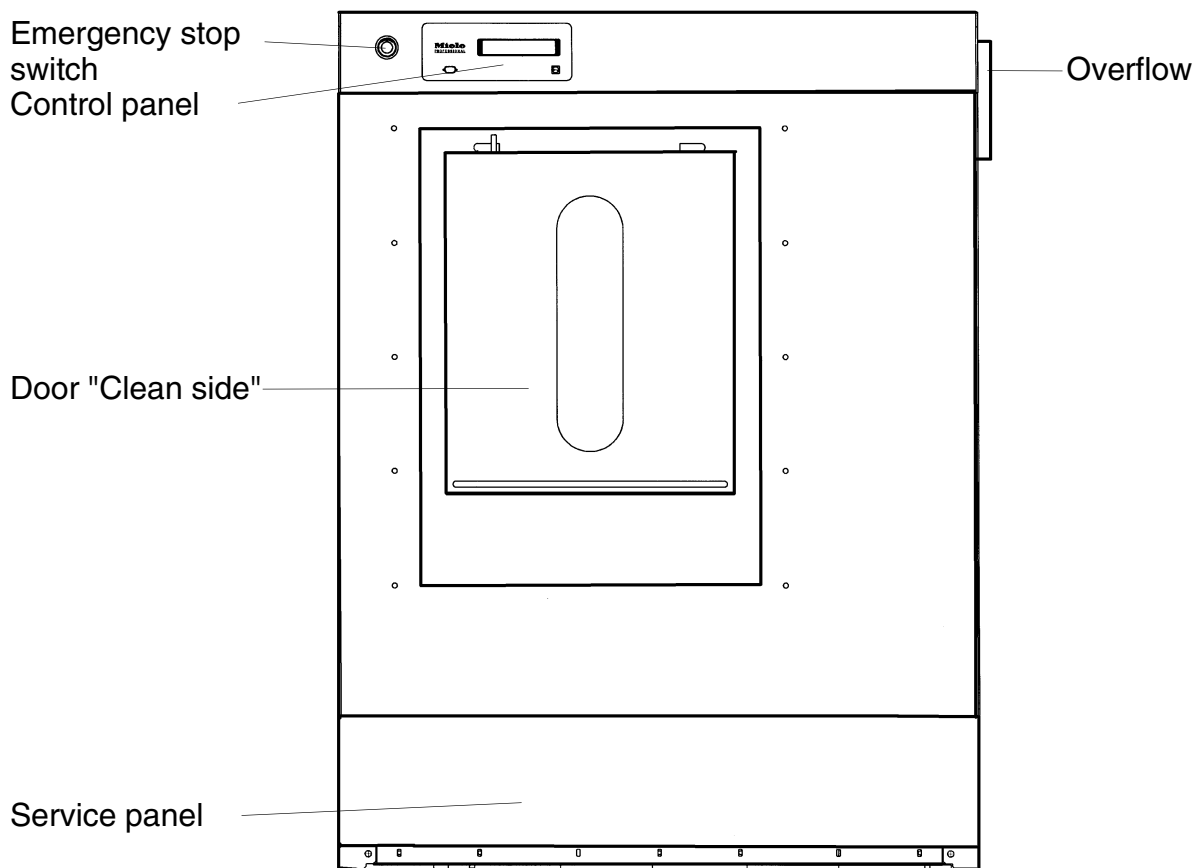
Disposal of your old machine

Old machines contain materials which can be recycled. Please contact your local authorities or scrap merchant about potential recycling schemes, before disposing of the machine. See also the section under "Warning and Safety instructions".

Guide to the machine



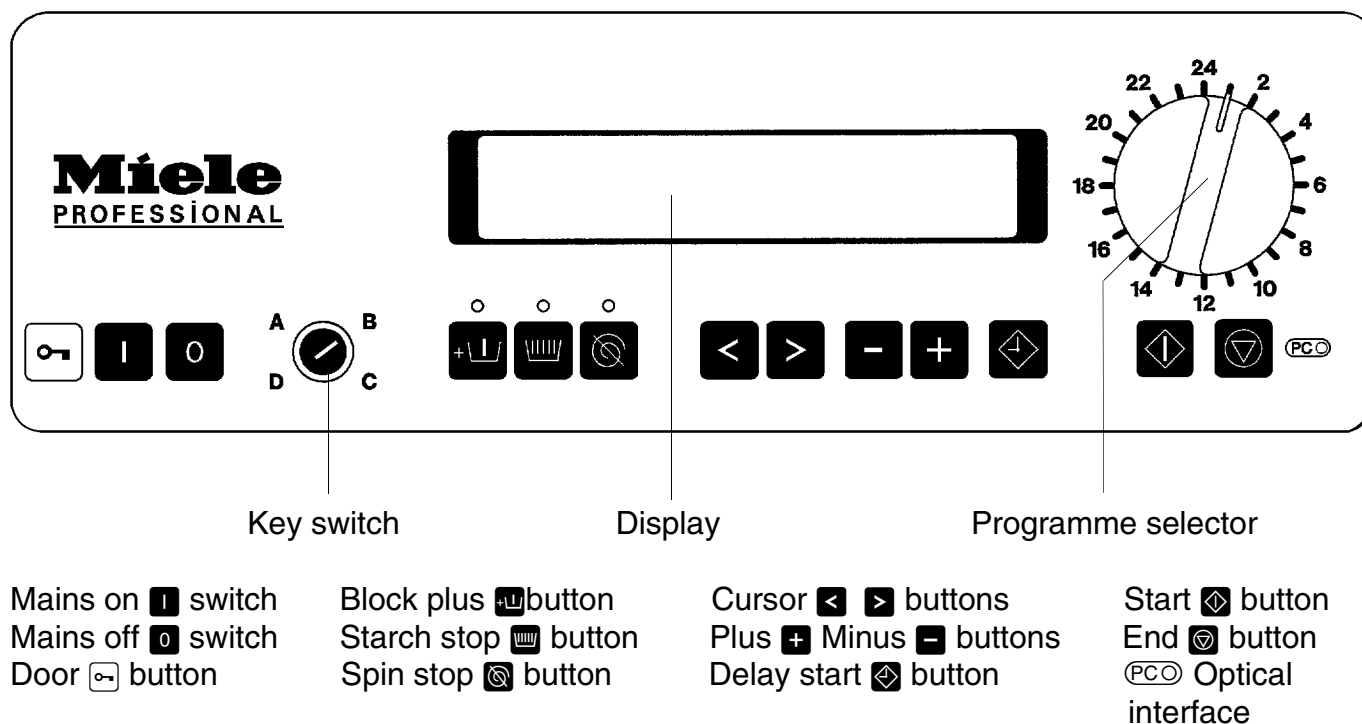
WS 5243/5323 "Unclean side"



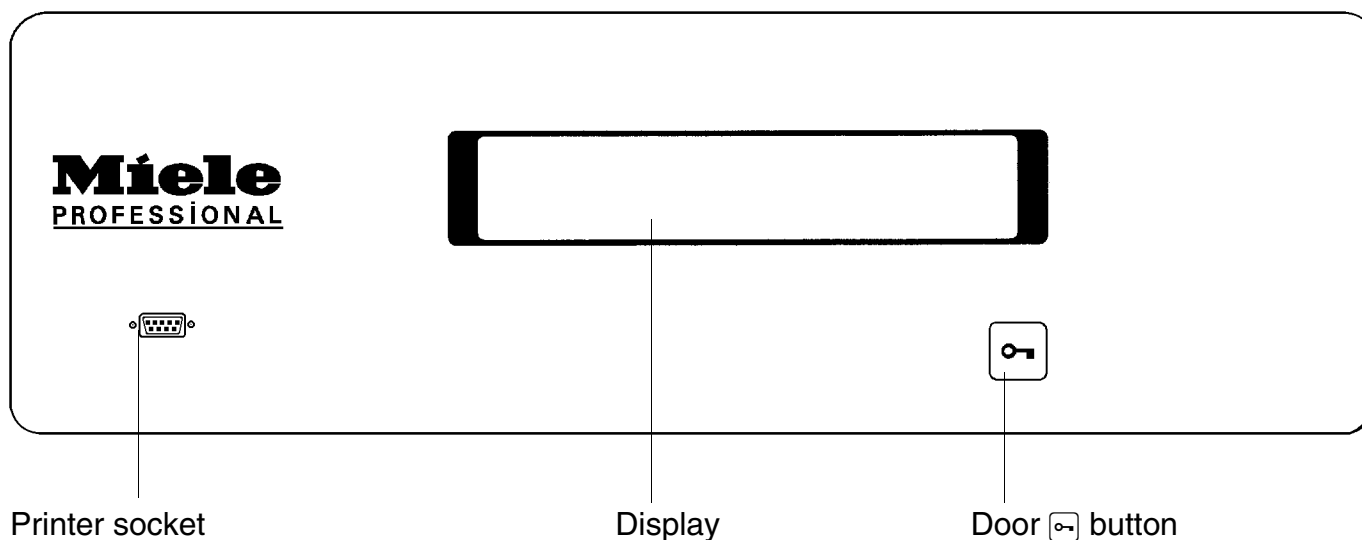
WS 5243/5323 "Clean side"

Guide to the machine

Control panel "Clean side" (loading side)

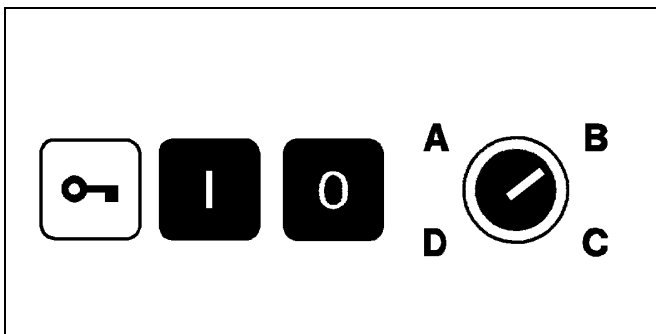


Control panel "Clean side" (Side for unloading disinfected laundry)



A printer can be connected to the machine for printing out programme reports.

Guide to the machine



Mains on switch

Mains off switch

Door button

Key switch

Position A – Free access

At this operating level only those programmes can be started which have been allocated free access.

See Programming Instructions for allocation of free access.

Position B - Operation

All programmes can be started at this operating level. The display field will show the programme which corresponds to the setting to which the programme selector has been turned.

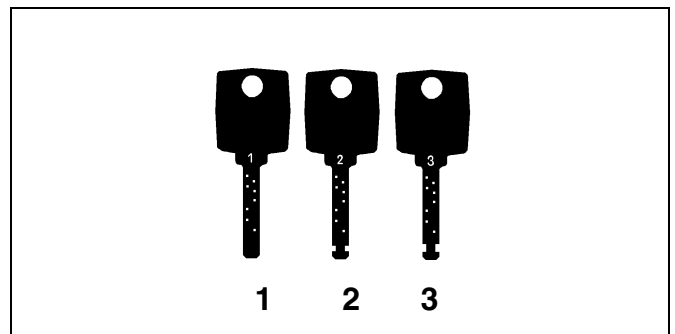
Position C - Programming

In this position programming, copying, deleting, altering, printing out, giving or barring free access and creating new programme sequences can be carried out. See Programming Instructions.

Position D - Unlocking

At this operating level barred programmes can be unlocked. Locked Programmes (e.g. Disinfection programmes) can not be cancelled once they have started.

If the key switch is turned to position D in such a programme, the programme running is unlocked and can be cancelled. See Programming Instructions.



Keys for the key switch

Key 1 (2 supplied) for operating levels **A** and **B**.

Key 2 for operating levels **A, B, C**.

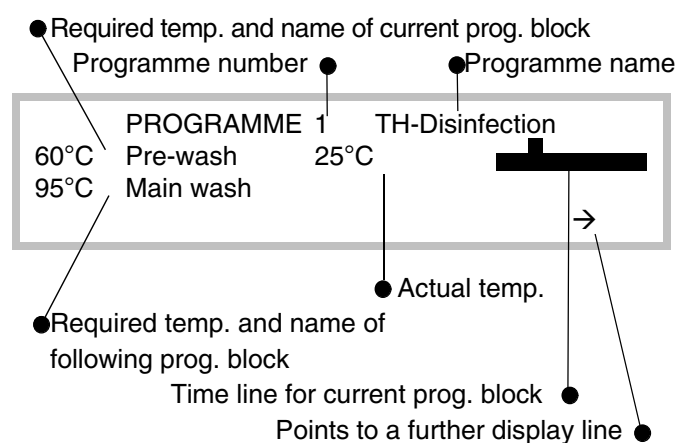
Key 3 for operating levels **A, B, C, D**.

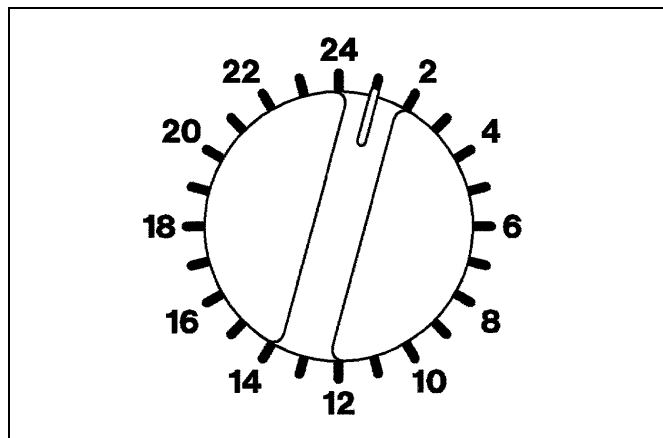
PROGRAMME 1		TH-Disinfection	
>95°C<	Main wash	1	
	Rinses	3	1000 RPM →

Display

The Display content shows after the machine is switched on. It shows which programme has been selected in 4 lines each 40 digits long.

After Programme start:

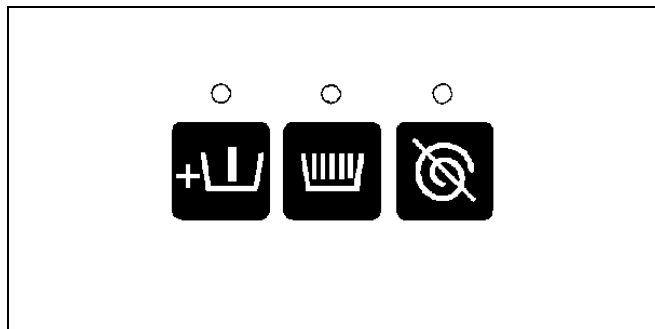




Programme selector switch

Programme numbers 1 - 24 can be selected directly. Programme numbers 25 - 99 can be selected using selector position 24 together with the "Plus + " button. The name of the selected programme and its corresponding number appear in the display. See the Programme Survey for allocation of programme positions. Disinfection programmes are locked and cannot be interrupted, stopped or cancelled after a programme has been started. The programme finishes on the "Clean side". If the programme selector switch is turned to another position after the start of the programme, the first line of the display flashes. The programme does not however change.

Disinfection programmes are locked 1 minute after a programme has started. They cannot then be interrupted, stopped or shortened. The programme finishes on the "Clean side".



Block+ button with indicator light

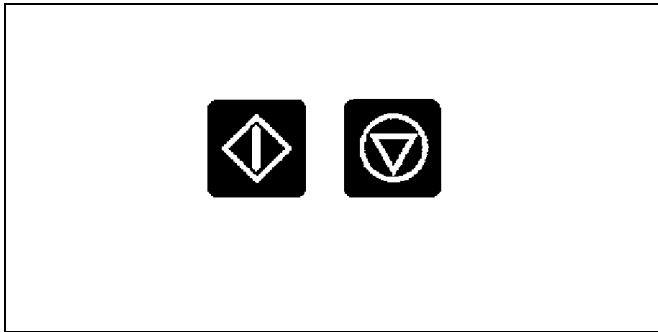
When the button is pressed the light above it comes on. The corresponding programme block (e.g. Pre-wash) is added to the programme. Pressing on the button a second time de-selects the function.

Starch hold button with indicator light

Press this button if the washing is to be starched. The light comes on.

Spin stop button with indicator light


Press this button if a final spin is not required after the final rinse. The light comes on.

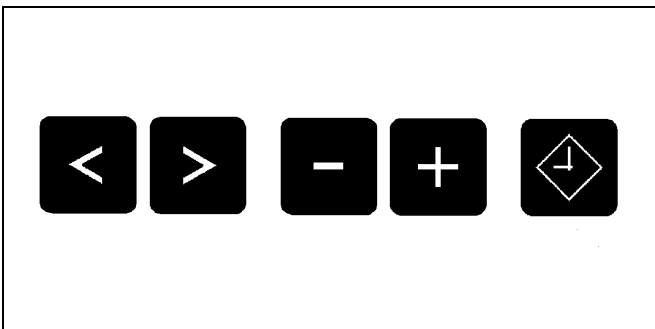


Start button





Press to start the selected programme.

End button

Pressing on this button halts a programme (Stop mode). Pressing once again on the button immediately terminates a programme. A halted programme can be continued in the relevant programme stage by pressing Start  button.



Cursor buttons

The cursor buttons   are used to scroll forwards or backwards into the input fields or onto the next display (this appears as   flashing in the display). After the start of the programme it is possible in Stop mode to scroll block by block backwards or forward in the programme. Pressing continuously on the button scrolls quickly through the options.

Plus Minus buttons

Once an input field has been selected it is possible to make a modification. Pressing continuously on the button runs quickly through the options.

Delay start button

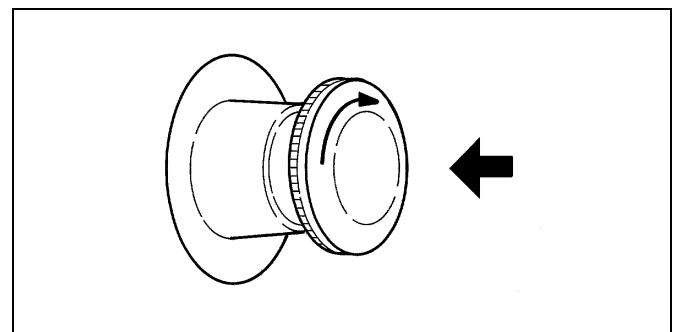
If this button is pressed before the start of a programme, the display indicates that a start time should be selected. If the button is pressed again the Delay start option is cancelled.

If this button is pressed after the start of a programme the current time of day and date are shown.



Optical interface

Data transfer to and from the machine's controls and a PC can take place using the relevant software. Connection is made via the optical interface on the control panel.




Emergency Stop Switch

Only to be used in an emergency. After removing the cause of danger this switch can be re-set by turning the ribbed disc in a clockwise direction.


After re-setting the following appears in the display:

```
PROGRAMME 1   TH-Disinfection
PROGRAMME STOP
THROUGH POWER CUT
Please press the Start button.
```

The drum turns to the "Unclean side". Press the Start  button again to continue the interrupted programme.




Setting the local language* (if necessary)

To set the local language the programming mode must be accessed by pressing simultaneously on the "Mains on" switch and the "Start" button. Normally German and one other language are available.


- Switch on the on-site mains switch.
- Turn the key switch to position **B** (Operation).
Switch the machine on by pressing the Mains off **0** switch.
- Press the Start  button and the Mains on **I** switch at the same time and keep pressed in until the following appears in the display:

SETTING LOCAL LANGUAGE
>DEUTSCH< ENGLISH










After selection press Start button.

- Select the required language with the Cursor   buttons.
- The display will immediately convert into the language selected.
- Confirm your selection by pressing the Start  button.
- The complete display contents (not visible) are converted into the language selected.

Setting current time and date *

- Switch the machine off with the Mains off **0** switch.
- Turn the key switch to position **B**.
- Press the Delay start  button and the Mains on **I** button at the same time and keep pressed in until the following appears in the display:

SETTING TIME AND DATE
Time of day >14< : 30 hrs
Date 23. 09. 1998
After selection press Start button.

- Use the Cursor  button to position the cursor on the input field for hours and set the hours with the Plus  or Minus  buttons.
- Use the Cursor  button to position the cursor on the input field for minutes and set the minutes with the Plus  or Minus  buttons.
- Position the Cursor on Date and use the  Plus  Minus buttons to set the date.
- Position the Cursor on the month and set the month.
- Position the Cursor on the year and set the year.
- Confirm your selection by pressing the Start  button.
If the "Delay start" button is pressed during a running programme the current time of day and date are shown.

* Pauses between programming steps must not last longer than 25 seconds, otherwise the display returns to the basic stage, (such as On) and the changes are not stored in memory.


Operation

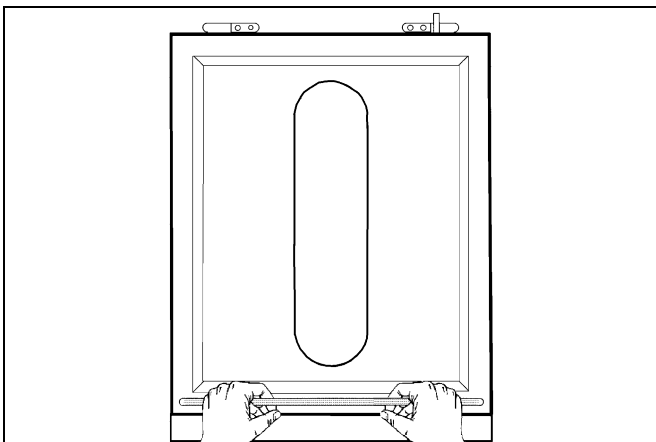
The washer-extractor must be commissioned by an approved Customer Service technician or authorised Service Dealer.

COMMISSIONING

- Open the on-site water stopcocks, (and the supply valves for steam, if relevant for the version of the machine).
- Switch on the electricity supply at the mains (on site).
- Turn the key switch to position **B** (Operation).

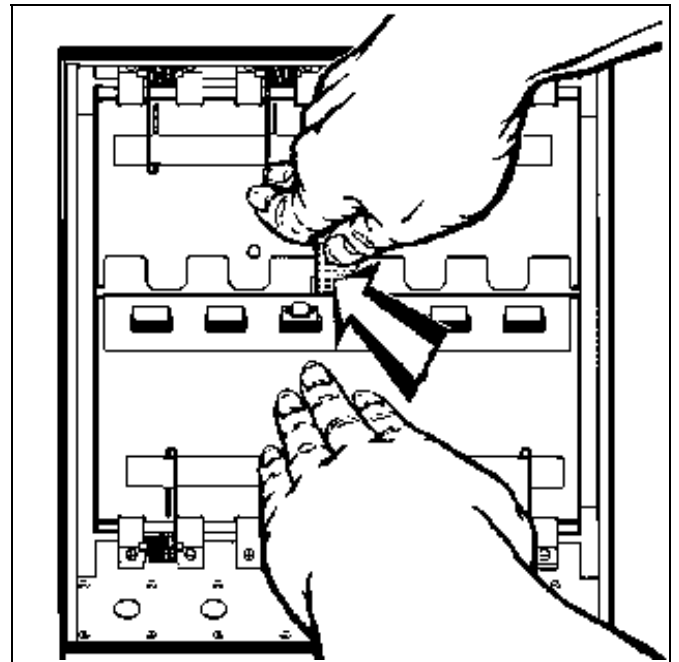
The functions described below refer only to Operating level **B**.

- Press the Mains on **I** switch.
- Unlock the door on the "Unclean side" by pressing the Door  button.



- Lift the door up.
Gas pressure stays raise the door upwards.

Open the drum:



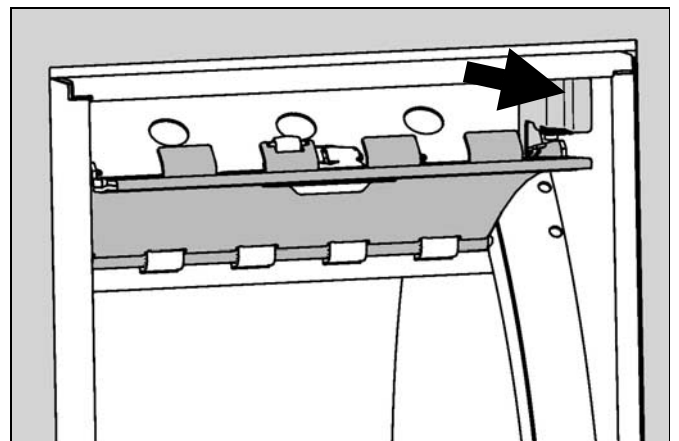
- Press down on the safety lock and at the same time push down on both sides of the drum opening to release the locking mechanism.
Carefully allow the two sides to open and secure the top half of the drum in the retainer.
- Empty all pockets

Foreign objects, (eg nails, coins, paper clips etc) can cause damage to textiles and components in the machine.

- Load the laundry.

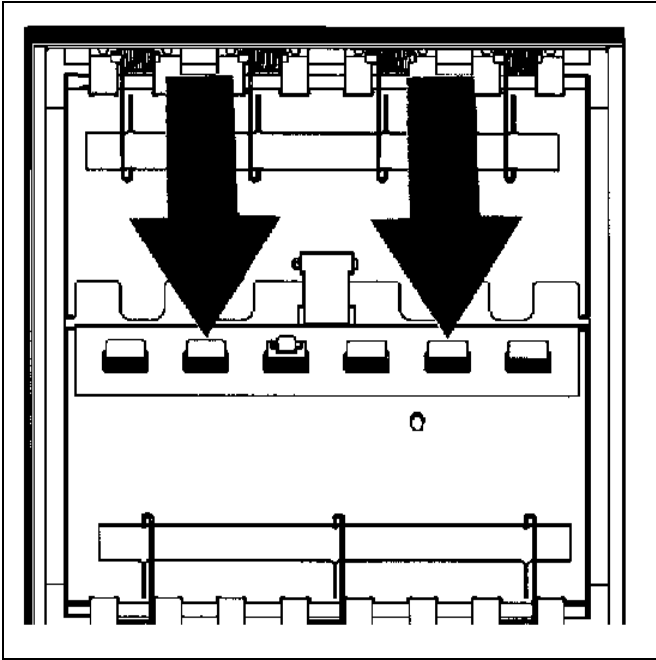
Do not exceed maximum permitted loads.
See next page for details.

Close the drum:



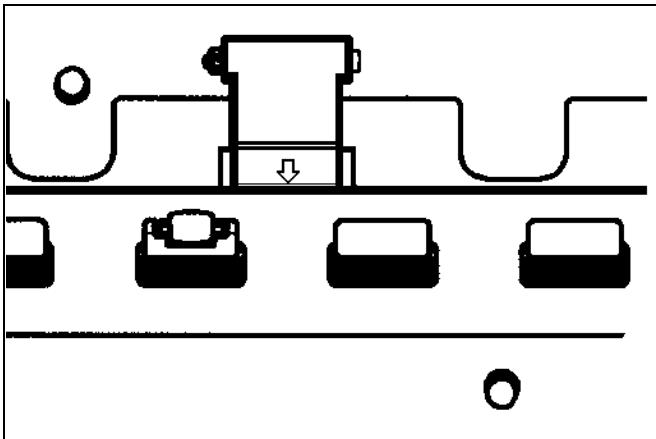
- Release the top half of the drum from its holder.

Operation



- First bring down the half with the safety lock and then bring down the other half making sure the locking mechanism visibly engages and is secure.

When closing the drum make sure laundry does not get trapped between the two sections.

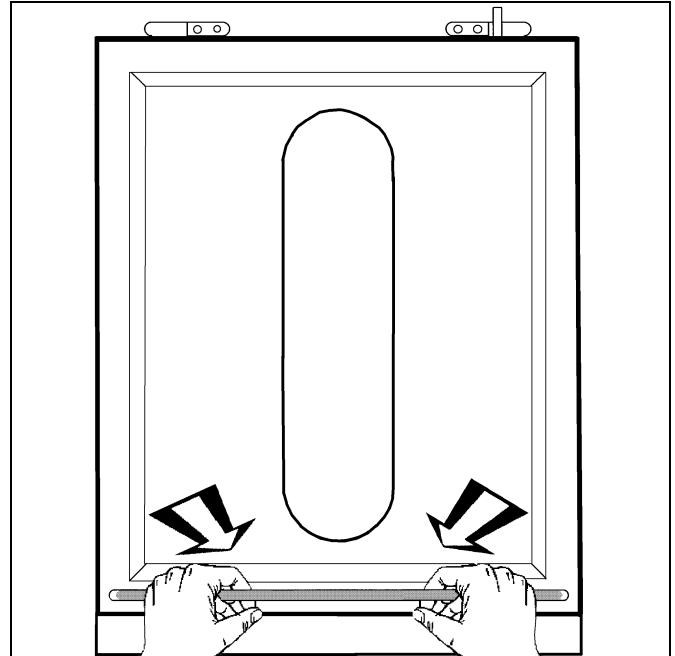


- To ensure that the drum door is correctly closed, the arrow on the safety lock must be completely visible.

If these procedures are not followed there is a danger of the drum door opening and causing considerable damage.

If any fluff has built up around the drum door it must be removed.

The locking mechanism must also be checked on a regular basis to ensure that it is working correctly.



- Pull the machine door downwards and with both hands use even pressure to lock the door. Do not slam the door down to shut it.

Do not pull the door towards you when closing it as this can prevent it from engaging in the locking mechanism and prevent the door from closing. If this does happen you will need to contact the Customer Service Dept.

If having closed the door you want to open it again, e.g. to add another item of laundry, you can do so within 20 seconds of closing it as it takes this long before the lock is activated.

- Adding detergent.
See next section.

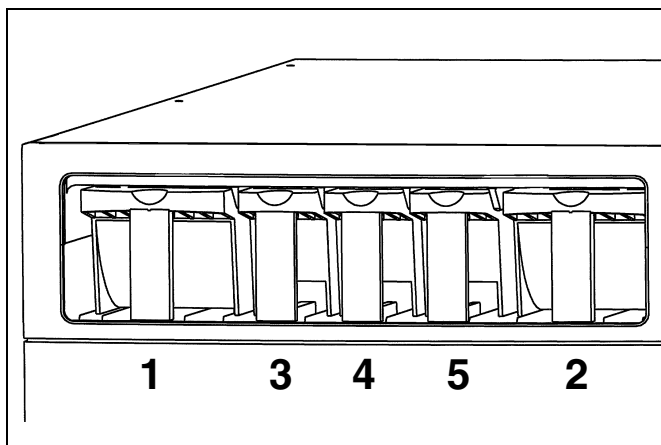
Operation

Load weight (dry laundry)

WS 5243	WS 5323
max. 24 kg	max. 32 kg

Load weights for individual programmes are quoted in the Programme Survey.


Adding detergent



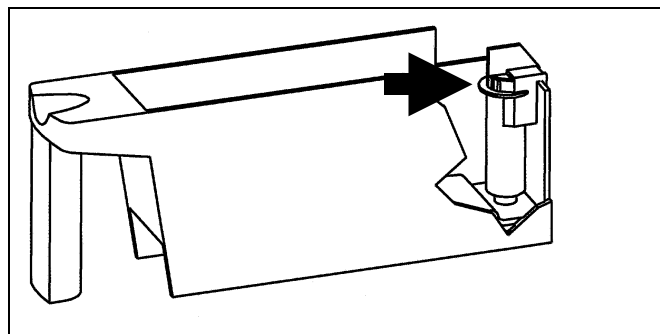
Add detergent for the:

- Main wash to compartment **2**
- Pre-wash to compartment **1**
- Fabric conditioner to compartment **3**
- Liquid bleach to compartment **4**
- Liquid detergent to compartment **5**

Bleaching agents

Only use bleaching agents on textiles which have the symbol  on the wash care label. Liquid bleaching agents must only be dispensed through designated dispenser compartment (4). The agent will then be dispensed automatically during the 2nd rinse (cold bleaching). Liquid bleaching agents should only be used on coloured textiles which have a wash care label stating that they are colour fast and suitable for bleaching.

For cold bleaching the 4th rinse must be programmed into the machine (see the Profitronic programming manual for further details on how to do this).



Liquid detergent must not be filled higher than the level marker, as otherwise it will get through the siphon and into the detergent dispenser drawer before it is needed.

Detergent dispensing

Avoid dispensing more than the required amount as this can cause excessive foaming. Only use low lather detergents. Dispense according to the detergent manufacturer's recommendations.

The amount to dispense will depend on:

- the amount of laundry
- the water hardness level in your area
- the type and amount of soiling

Water hardness levels

Hardness range	Water quality	Harshness level in mmol/l	German hardness level °d
I	soft	0 – 1.3	0 - 7
II	medium	1.3 – 2.5	7 - 14
III	hard	2.5 – 3.8	14 - 21
IV	very hard	over 3.8	over 21

If you do not know the hardness level of the water in your area you should contact your local water authority for information.

Selecting a disinfection programme

Disinfection programmes are **locked**. The wash temperature cannot be changed. Disinfection programmes are locked 1 minute after a programme has started. They cannot then be interrupted, stopped or shortened.


The door on the “Clean side” cannot be opened until a programme has finished and disinfection has been successfully achieved.

- Turn the programme selector switch to the required programme.

The display will then show for example the following:

	PROGRAMME 1	TH-Disinfection
95°C	Main wash	1
	Rinses	3
		800 RPM

With Pre-wash


- To select the “With Pre-wash” programme block press the Block +  button. The indicator light above the button will light up.

When pressing the Block + button the following will show in the display:

	PROGRAMME 1	TH-Disinfection
>60°C	Pre-wash 1	
95°C	Main wash	1
	Rinses 3	800 RPM

To change the spin speed

The following programme change can be made before a programme is started:
The spin speed can be changed in 100 rpm stages from 0 to 300 to a max. of 950 rpm. on the WS 5243 and to 800 rpm. on the WS 5323.

- Press the Start  button – the programme begins.

The programme sequence is shown in the display after the start of the programme.

60°C	PROGRAMME 1	TH-Disinfection
95°C	Pre-wash	20°C
	Main wash	

→


The 2nd display line shows the actual suds temperature, in this instance of the Pre-wash, with the time line extending to the right. The following programme block, in this instance the Main wash, is shown underneath it.

95°C PROGRAMME 1 TH-Disinfection
Main wash 20°C
Rinse 1

→

When the Pre-wash programme block has finished, the Main wash programme block appears in the 2nd line of the display, with the actual suds temperature, and the time line extending off to the right. The next programme block, here Rinse 1, is shown underneath it.

If an arrow appears in the last line at the right hand side (\rightarrow), this indicates that there is another display line to follow.

Pressing the cursor  button brings up further information relating to the PROGRAMME in the lower lines.

Programme end display

After water from the last heating phase has drained away or after the last “Cool Down” the programme end time is shown in hours and minutes.


PROGRAMME 1 TH-Disinfection
Rinse 1
Rinse 2
Programme end 11 : 25 hrs →

Unloading the machine

Open the door on the “Clean side” (unloading side) at the end of a programme

At the end of the Programme, with a stationary drum and no more water in the machine the following display is shown (for example):

PROGRAMME 1 TH-Disinfection
PROGRAMME END
DOOR IS UNLOCKED

- To open the door of the "Clean side" press the Door  button and lift the door up.

If a disinfecting programme has been interrupted or if there has been a fault during the programme it will have to be repeated in order to ensure that the disinfection parameters have been successfully achieved.

- Unlock the drum door and release both sides of the door upwards. Secure the top half in its retainer.
- Remove all the laundry.


If this was the last wash load of the day, or for a longer period:

- Close the drum.
To ensure that the drum door is correctly closed the arrow on the safety lock must be completely visible.
- Pull the machine door downwards and with both hands use even pressure to lock the door. Do not slam the door down to shut it.

Do not pull the door towards you when closing it as this can prevent it from engaging in the locking mechanism and prevent the door from closing. If this does happen you will need to contact the Customer Service Dept.

The doors on the "Clean side" (Unloading side) must be properly closed again after removing laundry from the machine.

After closing the door the drum opening automatically turns to the “Unclean side”.

- Open the door on the "Unclean side".
- Press the Mains off  switch to switch off the machine.
- Switch off the electricity mains supply (at the wall switch).
- Turn off the stopcocks and valves on site for water, and for steam if applicable.

Selecting an “unlocked” programme

- Turn the key switch to position **B** "Operation".
- Press the Mains on **I** switch.
- Turn the programme selector switch to the required programme.

The display will then show for example:

PROGRAMME 25		COTTONS
>95°C<	Main wash	1
	Rinses	3
		800 RPM

With Pre-wash

- To select the “With Pre-wash” programme block press the Block + **+** button. The indicator light above the button will light up.

When pressing the Block + **+** button the following will show in the display:

PROGRAMME 25		COTTONS
>60°C<	Pre-wash	1
95°C	Main wash	1
	Rinses	3
		800 RPM

To change the temperature and the spin speed

The following programme changes can be made before a programme is started:

The temperature in 1 °C stages from cold, 15 to max. 95 °C.

The spin speed can be changed in 100 rpm stages from 0 to 300 to a max. of 950 rpm on the WS 5243 and to 800 rpm on the WS 5323.

PROGRAMME 25		COTTONS
>60°C<	Pre-wash	1
95°C	Main wash	1
	Rinses	3
		800 RPM

- Use the Cursor **➤** button to position the cursor on the input field for the pre-wash temperature and set the required temperature (60 °C in this example with the Plus **+** or Minus **-** buttons.
- Use the Cursor **➤** button to position the cursor on the input field for the main wash temperature and set the required temperature with the Plus **+** or Minus **-** buttons.

- Position the cursor on the input field for the spin speed and set the required spin speed with the Plus **+** or Minus **-** buttons.

- Press Start **▶** in to start the programme.

Once the programme has started the programme sequence will show in the display.

PROGRAMME 25		COTTONS
60°C	Pre-wash	20°C
95°C	Main wash	
		➔

The 2nd display line shows the actual suds temperature, in this instance of the Pre-wash, with the time line extending to the right. The following programme block, in this instance the Main wash, is shown underneath it.

PROGRAMME 25		COTTONS
95°C	Main wash	20°C
	Rinse 1	
		➔

When the Pre-wash programme block has finished, the Main wash programme block appears in the 2nd line of the display, with the actual suds temperature, and the time line extending off to the right. The next programme block, here Rinse 1, is shown underneath it.

If an arrow appears in the last line at the right hand side (➔), this indicates that there is another display line to follow. Pressing the cursor **➤** button brings up further information relating to the PROGRAMME in the lower lines.

Programme end display

After water from the last heating phase has drained away or after the last “Cool Down” the programme end time is shown in hours and minutes.


PROGRAMME 25		COTTONS
	Rinse 1	
	Rinse 2	
Programme end	11 : 25 hrs	➔

Selecting an “unlocked” programme

Open the door on the “Unclean side” (loading side) at the end of a programme

At the end of the Programme the door on the “Unclean side” can be released. If there is no more water in the machine and the drum is stationary the following display is shown (for example):

PROGRAMME 25 COTTONS
PROGRAMME END
DOOR IS UNLOCKED

- To open the door of the "Unclean side" press the Door  button and lift the door up.
- Unlock the drum door and release both sides of the door upwards. Secure the top half in its retainer.
- Remove all the laundry.

If the programme is interrupted (e.g.) when there is water in the machine, or during the spin, the following display messages might appear:


PROGRAMME 25 COTTONS
PROGRAMME END
DOOR IS LOCKED
THERE IS WATER IN THE MACHINE

or:

PROGRAMME 25 COTTONS
PROGRAMME END
DOOR IS LOCKED
DRUM IS NOT YET STATIONARY

Select SEPARATE DRAIN or SEPARATE SPIN and start the programme. At the end of the programme open the door.


If this was the last wash load of the day, or for a longer period:

- Leave the drum door open.
- Switch off the machine by pressing the Mains off  switch.
- Switch off the electricity mains supply (at the wall switch).
- Turn off the stopcocks and valves on site for water or steam.


Additional functions

With Pre-wash

A pre-wash can be selected for heavily soiled laundry.


The pre-wash programme block can be selected before starting a programme by pressing the Block +  button. The indicator light above the button lights up.

Starching


Starching can be selected before starting a programme by pressing the Starch hold  button. The indicator light above the button lights up.

PROGRAMME 25 COTTONS
Rinse 3
STARCH HOLD
Press the starch and starch hold button.

When the “Starch” point has been reached in the programme sequence, “Starch hold” flashes in the Display.

The programme is continued by pressing the Starch hold  button, (the indicator light light goes out). Add the starch formulation, prepared according to the producers’s instructions to the inflowing water via the correct dispenser compartment. The wash time is automatically extended by 4 minutes.

Filling the starch directly into the drum


When the “Starch” point is reached in the sequence, “Starch hold” flashes in the Display. Open the drum door on the “Unclean side” and add the starch formulation, prepared according to the producer’s instructions. Shut the drum door. The message “power cut programme stop” will then appear in the Display. Press the Start  button.

This message will appear again:



PROGRAMME 25 COTTONS
Rinse 3
STARCH HOLD
Press the starch and starch hold button.


Press the Starch hold  button (the indicator light goes out) and the programme continues.

Without spin

Without spin can be selected before starting a programme by pressing the Without spin  button. The indicator light above the button lights up.

PROGRAMME 25 COTTONS
Rinse 3
WITHOUT SPIN
Press the without spin or end button.

When the “Spin” programme point is reached, “Without spin” flashes in the Display. If you want to continue the programme with a spin press the Without spin  button again. To finish the programme without a spin simply press the End  button and the programme will finish with water still in the machine.

To open the door select the SEPARATE DRAIN and press the Start  button.


Skipping programme stages


Stages in the programme in progress can be skipped or blocks repeated.


Press the End  button and the programme is stopped.

PROGRAMME 25 COTTONS
Main wash
PROGRAMME STOP

Programme stop flashes in the Display.



Use the  cursor to skip the programme block by block to the end.

Use the  cursor to skip the programme block by block back to the beginning.


At the position required press the press the Start  button to continue the programme again.

Additional functions

Programme interruption

To stop a programme press the End  button.
To continue the programme again press the Start  button.

Programme cancellation


Should you wish to cancel a programme, press the End  button twice in succession.

If the programme was cancelled while there was water in the machine, or during a spin, the following shows in the display (example):

PROGRAMME 25 COTTONS
PROGRAMME END
DOOR IS LOCKED
WATER IS IN THE MACHINE

or:

PROGRAMME 25 COTTONS
PROGRAMME END
DOOR IS LOCKED
DRUM IS NOT YET STATIONARY

To open the door select SEPARATE DRAIN or SEPARATE SPIN and press the Start  button. On completion the door can be opened.

Delay Start

If a later start to a programme is required, this can be selected using the "Delay start" button.

Set the start time

- Switch on the machine and select the required programme with the programme selector switch.

The Display shows the following (example):

PROGRAMME 1 TH-Disinfection
>95°C<Main wash 1
Rinses 3 800 RPM






- Press the Delay start  button.

Here the Display shows the following:

PROGRAMME 1 TH-Disinfection
Start time >14< : 30 hrs
After the start time has been set
press the Start button.


The current time of day is always displayed first.

The cursor points to the input field for "hours".

- Select the Start Hour with the Plus  and Minus  buttons.
- Position the Cursor on the input field for minutes and select the minutes with the Plus  and Minus  buttons.
- Press the Start  button, Delay start is confirmed, and (here) the following shows in the display:

PROGRAMME 1 TH-Disinfection
95°C Main wash 1
Start time 18 : 30 hrs

When the start time is reached the programme proceeds and the Display shows the programme sequence.

If the Delay start  button is pressed during the programme, the actual time of day and date are shown.

To delete the Delay start time:

Before pressing the Start button:


- Press the Delay start button.

After pressing the Start button:

- Press the End  button.

Locked programmes (Disinfecting programmes)

If a disinfection programme is interrupted or if there is a fault during the disinfecting phase (wash time 2), the whole programme must be repeated to ensure that disinfection is achieved.

- Turn the key switch to position **D** "Unlocking".
At this operating level barred programmes can be unlocked.
- Press the End  button.
- Turn the key switch to position **B** "Operation".

The programme can now be repeated.

Locating the drum door to the "Clean side"

The DOOR LOCATING programme rotates the drum opening to the "Clean side". Unfinished laundry can be transported from the "Clean side" to the "Unclean side".

The DOOR LOCATING programme can also be used to transport laundry in the drum to the "Clean side". It is the user's responsibility to ensure that the laundry is hygienically clean before it is removed from the machine.

Rinsing with hot water

Rinsing with hot water is a benefit for machines connected to a hot water supply.

Standard programmes

1 Cottons 95°C and

2 Cottons 60°C

are programmed to rinse with hot water.

If a hot water supply is available it is an advantage to run the final rinse with hot water. This reduces the residual moisture content of the laundry after spinning and the laundry retains heat.

If the laundry is then tumble dried or ironed straight after the wash programme savings will be made in the time it takes to process it and in the amount of energy required.

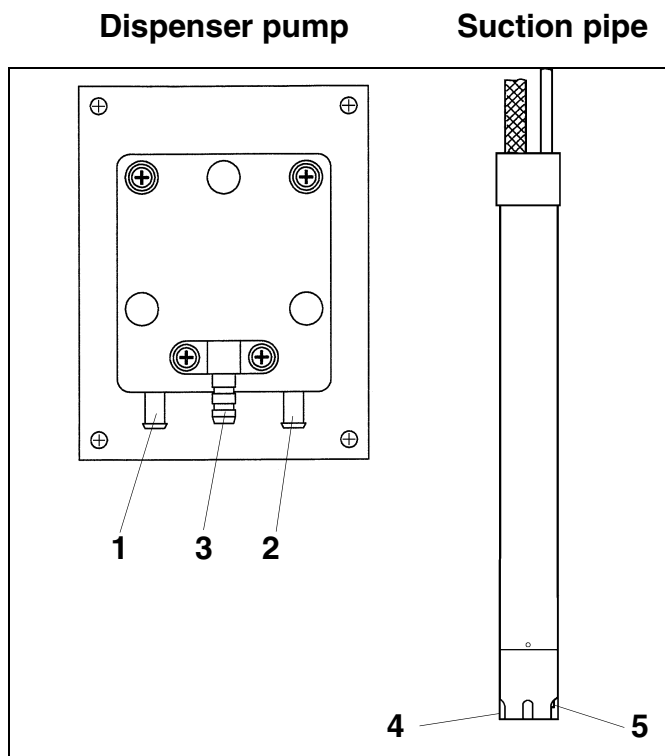
Connecting a printer

Printer - operation:

A report of a whole programme or a section of a programme can be printed. See the programming instructions supplied with the machine.

To print a wash report the machine will have to be reprogrammed by a Miele Service technician.

To operate a printer with a parallel interface an interface adapter is needed between the serial interface and the parallel interface.



- 1 = Hose connection socket (suction side)
- 2 = Hose connection socket (pressure side)
- 3 = Leakage outlet (in case of damaged hose)
- 4 = Suction inlet opening
- 5 = Level checker for empty indicator
When a dispenser container is empty the pump and the machine switch themselves off automatically.

PROGRAMME -- - - - - -
PROGRAMME STOP
DISPENSING SYSTEM FAULT
Dispensing container 1 empty.

At the same time the machine indicates a lack of liquid detergent.

The programme will continue automatically once the container has been refilled.

Amount to be dispensed

Follow the detergent manufacturer's guidelines.

Always follow the instructions of the chemical manufacturer when using cleaning agents and special application chemicals. Only use such chemicals for the purpose and in the situation specified by the manufacturer in order to avoid the danger of adverse chemical reactions and material damage.

If in doubt check the suitability of the product for use in this machine with the manufacturer before using it.

Correct dosage also depends on the viscosity of the liquid detergent. It should be allowed to adapt to the normal room temperature before being used.

Cleaning and care the dispensing system

Rinse the dispensing system through with hot water every 2 weeks, or before shutting the dispenser pumps down for any length of time, to avoid the system getting clogged up.

- Rinse out the suction pipes as well with water.
- Put the suction pipes in a container with warm water, (40 - 50 °C) .
- In the Service programme switch in each pump, until the dispensing system is rinsed through.
- Check the connection points, hoses and washers for leaks.

Liquid dispensing


Commissioning the dispensing pumps

Before the liquid dispensing pumps can be used the liquid detergent must be drawn into the system and the amount to be dispensed set. The Service Programme is used for this.

Drawing in the liquid detergent

- Feed the suction pipes into the liquid detergent containers.

Service operation:

- Switch off the machine.
- In operating mode **B**, turn the programme selector switch to 24.
- Switch on the machine, and within 4 seconds, press the Block +  button 4 times in quick succession. This brings you into Service operation. The cursor will be on the Service programme.

```
SERVICE - OPERATION
>SERVICE PROGRAMMES<  MACHINE DATA

After selection press Start button. →
```





- Press the Start  button.

```
SERVICE - OPERATION  SERVICE PROGS
SERVICE PROGRAMME  >1<


After selection press Start button. →
```

- Press the Plus  button to select SERVICE PROGRAMME 2 and press the Start  button.

```
SERVICE - OPERATION  SERVICE PROGS
SERVICE PROGRAMME  2
Dispenser valve  >D1< Disp. time 0 Secs.
After selection press Start button.
```

- Use the Plus  to select D1, use the  cursor button to move to the input field for dispensing time and use the Plus  button to enter a dispensing time of approx. 20 secs. Press the Start  button and the hoses for pump 1 will be filled.



```
SERVICE - OPERATION  SERVICE PROGS
SERVICE PROGRAMME  2
Dispenser valve  >D1< Disp. time 20 Secs.
Cancel with the End button.
```

- Cancel with the End  button.


Repeat the whole process with D2 and D3.

```
SERVICE - OPERATION
>SERVICE PROGRAMMES<  MACHINE DATA

After selection press Start button. →
```

- Press the Start  button, select SERVICE PROGRAMME 2 and press the Start  button.

To exit from Service operation:

- Cancel with the End  button and switch off the machine.
- Switch the machine on and select Programme **8** SEPARATE RINSE and SPIN to flush the liquid agent out of the machine.

To correct the amount dispensed by the pumps

(should the dispensing times set not be long enough)

The amount to be dispensed is measured out in litres in the Service programme. The procedure is similar to the one for drawing up the liquid detergent. The dispensing time decided on is then set in the Operating mode **C** Programming in the step programming.

The maximum pump throughput is approx. 168 ml/min. for all pumps. These figures are only intended as a guide and will vary according to the medium.

- Feed the suction pipe into a deep measuring container with sufficient liquid detergent and keep it at the full level.
- Continue as for **Drawing in liquid detergent**.

Problem solving guide

Power cut during a wash programme

With a short power cut:



The programme remains in the last position, and when power is restored the following message appears in the Display:

PROGRAMME 25 COTTONS
PROGRAMME STOP
THROUGH POWER CUT
Please press the Start button.

The drum rotates to the "Unclean side". Press the button Start  button to continue the programme.

If a disinfection programme is interrupted or if there has been a fault during the disinfecting phase (wash time 2), the whole programme will have to be repeated to ensure that disinfection is achieved.

Cancel the disinfecting programme and repeat it

- Turn the key switch to position **D** "Unlocking".
At this operating level barred programmes can be unlocked.
- Press the End  button.
- Turn the key switch to position **B** "Operation".
- Add detergent
- Press the Start  button
– the programme is repeated.

With an extended power cut:

- Switch off the machine.
- Switch off the electricity supply at the mains switch (isolator).
- Turn off the stopcocks and valves on site for water or steam.

Emergency door release:

To remove the laundry the drain valve will need to be opened manually and the drum door unlocked manually on the "Unclean side" and the drum turned to the correct position.

Contact the customer Service Department for instructions on how to do this.

After removing the laundry ensure that all removable parts of the machine casing are refitted correctly in position.

Problem solving guide


Fault messages

Repairs to machines operating with electricity or steam should only be undertaken by a suitably qualified service engineer to ensure safety. Unauthorised repairs could be dangerous.


If a programme has been interrupted or if there has been a fault during the disinfecting phase (wash time 2) the whole programme will have to be repeated to ensure that disinfection has been achieved.

Faults that occur before or after the start of a programme are displayed flashing in the display.


PROGRAMME 25 COTTONS
PROGRAMME STOP
THROUGH POWER CUT
Press the Start button.

When power is restored press the Start  button. This fault message can also indicate that the winding protection of the drive motor has overheated. - Allow the motor to cool down.

PROGRAMME 25 COTTONS
PROGRAMME STOP
WATER INLET FAULT
Open water stopcock and press "Start button".

Open water stopcock and press the Start  button.

PROGRAMME 25 COTTONS
PROGRAMME STOP
DRAIN FAULT
Clean drain system and press Start button.

Check the drainage system on site and press the Start  button. A defective drain valve should only be repaired by the service department or their authorised agent.

PROGRAMME 25 COTTONS
PROGRAMME STOP
HEATING SYSTEM FAULT
Short circuit on heater sensor 1.

Call the Service Department.

PROGRAMME 25 COTTONS
PROGRAMME STOP
HEATING SYSTEM FAULT
Cut-out of heating sensor 1.

Call the Service Department.

PROGRAMME 25 COTTONS
PROGRAMME STOP
HEATING SYSTEM FAULT

Call the Service Department.

PROGRAMME 25 COTTONS
PROGRAMME STOP
DRIVE SYSTEM FAULT
Multiplug drive variants lacking.

Call the Service Department.

95°C PROGRAMME 25 COTTONS
Main wash 20 °C
Rinses 1
DRIVE SYSTEM FAULT

Clean the ventilation slot on the side wall for the cooling fan.

Call the Service Department, if there is still no drum movement 30 minutes after this message appeared.

PROGRAMME 25 COTTONS

PROGRAMME STOP
PEAK LOAD CUT OUT ACTIVE

At the end of the peak load cut out function the programme continues automatically.

Problem solving guide

PROGRAMME 25 COTTONS
PROGRAMME STOP
IMBALANCE SWITCH
Press the On-Off switch.

Press the Mains off **0** and the Mains on **1** switches.

PROGRAMME 25 COTTONS
PROGRAMME STOP
PRESSURE MONITOR FAULT

Call the Service Department.

PROGRAMME 25 COTTONS
PROGRAMME STOP
DISPENSING SYSTEM FAULT
Dispensing container 1 empty.

Change the dispensing container.

PROGRAMME 25 COTTONS
PROGRAMME STOP
HEATING SYSTEM FAULT
Dry step switch has cut out.

Call the Service Department.

Large articles of laundry stretching during the spin cycle

Large articles of laundry (e.g. table cloths) might stretch during the spin cycle. This can generally be prevented by reprogramming the machine.

Procedure:

Reprogramme programmes from switch setting 14

Drain valve: programme to **no**

Drain with tumble: programme to **no**

Spintime with drain: programme to **7 mins.**

Possible reasons for increased levels of foaming:

– detergent type

- Only use detergent formulated for use in commercial washer extractors. Domestic laundry detergent is not suitable.

– overdosing of detergent

- Dispense detergent following the detergent manufacturer's instructions on the packaging and in accordance with local water hardness levels.

– detergent creates too much foam

- Use a lower foaming detergent or contact your detergent application specialist.

– very soft water

- In areas with hardness level 1 dispense less detergent in accordance with the detergent manufacturer's instructions.

– soiling level of the laundry

- For lightly soiled laundry dispense less detergent in accordance with the detergent manufacturer's instructions.

– residues, e.g. detergent are left on laundry

- Run an additional pre-wash without detergent and without selecting a temperature. Laundry which has been soaked before washing must be thoroughly rinsed before running a wash programme.

– small loads

- Reduce the amount of detergent dispensed according to the size of the load.

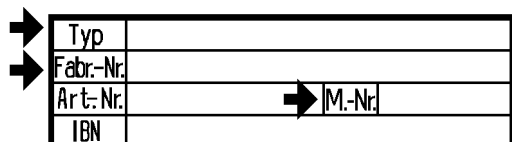
– drum speed too high during the wash (Profitronic-controls)

- Reduce the drum speed and wash rhythm.

After sales service

Should a fault occur please contact the Service Dept.

When contacting the Service Dept, please quote the model type and machine number (Fabr.-Nr.), and part number (M.-Nr.). These can be found on the data plate :



at the top of the door on the "Unclean side"
or:

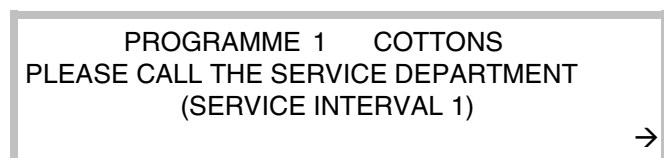



on the side casing of the machine above the ventilation grille.

Only use genuine Miele spare parts. When ordering spare parts the Spare Parts Dept will also need to know the model type and machine number (Fabr.-Nr.) and part number (M.-Nr.).

Service interval

If the following message appears in the display after switching the machine on:



The machine needs to be serviced.
The Service interval display will go out after 5 seconds or by pressing the Start  button.

Cleaning and Care

The machine should be cleaned, wherever possible, immediately after use.

On no account use high pressure cleaners or hose down the machine.

The drum is made of non-rusting stainless steel. However water with a high iron content or foreign bodies in the wash, (e.g. paper clips or metal buttons), may cause superficial rust spots in the drum - especially if the machine is not used for some time. These can be removed with a proprietary scouring powder.

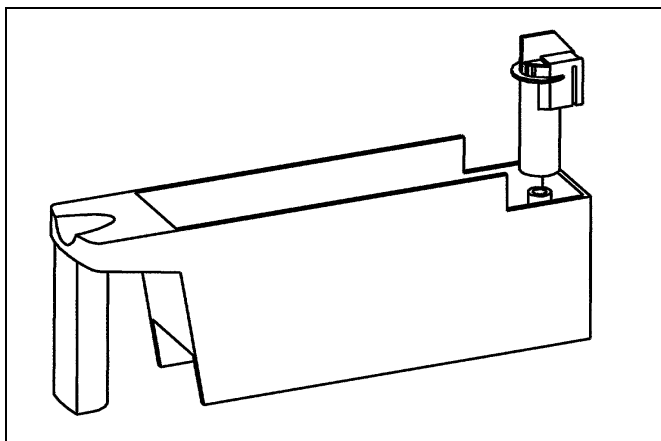
The casing, control panel and any plastic parts such as buttons and control switches should be cleaned with a suitable mild cleaning agent or with a damp cloth and then wiped dry. A proprietary stainless steel cleaning agent can be used on stainless steel parts of the casing.

Do not use abrasive cleaning agents, as these will scratch the surface.

Do not cover or block the overflow from the machine.

Dispenser compartments and siphons

After use these should be cleaned with warm water to remove any detergent or other residues. The siphon tubes in the dispenser compartments should also be cleaned.

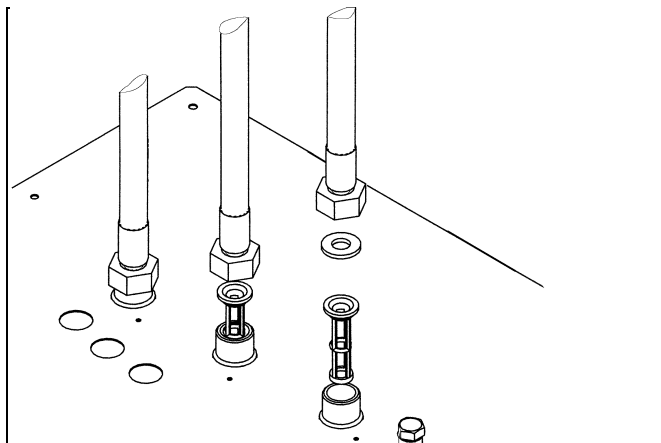


Pull the siphon tube out and clean with hot water before replacing.

Check the drum door regularly for a build up of fluff and clean as necessary. Check the door locking mechanism regularly to ensure it is working correctly.

Cleaning the cooling fan grille

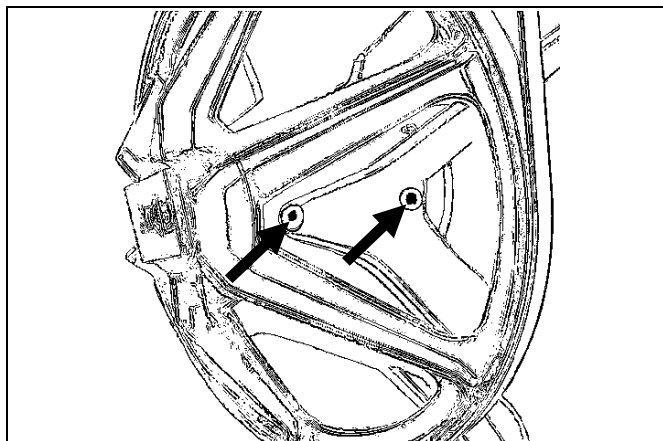
The ventilation slits in the grille cover for the cooling fan at the side of the machine must never be covered over or blocked. They should be checked regularly for a build up of fluff and cleaned as necessary.



The filters in the water inlet valves must be checked from time to time for soiling and cleaned if necessary.

Cleaning and Care

Greasing



After about 1000 running hours apply **Arca-nol L 100** to both grease nipples of the drum.

When not in use for a longer period of time:

If the machine is not going to be used for a longer period of time (4 weeks or more) the drum bearings should be lubricated and the drum rotated several times after the last use. See the "Cleaning and Care" section of the Operating Instruction manual supplied with the machine. The drum should be rotated every 4 weeks to prevent damage to the bearings.

After use do not shut the door on the "Unclean side" but leave it slightly ajar, to allow the machine to dry out.

Explanation of the symbols on the data plate

1	Typ		14	15	16	20
2	Fabr.-Nr.					IBN
	Art.-Nr.					
	M.-Nr.					Total
3						Total
4						17
5						
6						18
8						
9			Q _n (Hi)			
10	Vol. /G	/	DVGW-Reg.-Nr.			21
7	E _{kin}					
11						
12		1/min				
		1/min				
			13	19	22	

1	Typ	
2	Fabr.-Nr.	
	Art.-Nr.	M.-Nr.
20	IBN	

Noise level

Registered on the "A" scale

	During wash	During spin
WS 5243	60.7 dB	81.6 dB
WS 5323	63.5 dB	80.1 dB

Measured in Germany in accordance with
DIN (IEC) 45 635 machine noise regulations
3. GSGV § 1 1.a

- 1 Machine type
- 2 Machine number / year of manufacture*
- 3 Voltage / Frequency
- 4 Control fusing
- 5 Drive motor
- 6 Plate diameter* /Plate quantity*
- 7 Drum data
- 8 Drum diameter / Drum depth
- 9 Spin speed
- 10 Drum volume / Laundry dry weight
- 11 Kinetic energy
- 12 Ex. Time to top speed
- 13 Braking time
- 14 Heating
- 15 Electric heating
- 16 Fusing (on site)
- 17 Steam heating indirect
- 18 Steam heating direct
- 19 Gas heating*
- 20 Commissioning date
- 21 Water registration (DVGW-Reg.-N° in Germany)
- 22 Field for test certificates/CE-.....(Product-ID-Number/Gas*

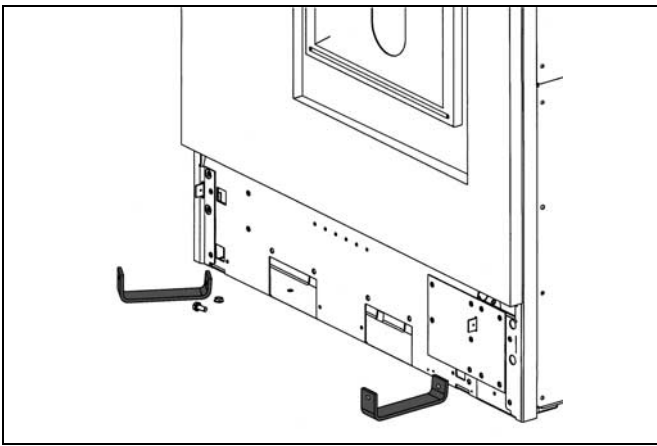
*) does not apply to WS 5243 / 5323

Installation

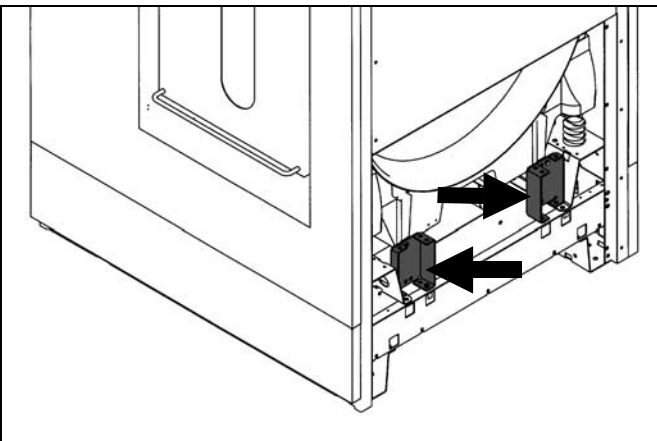
This machine is for use only with articles which have not been treated with dangerous or inflammable substances.

To avoid the possibility of frost damage on no account install the machine in a room which is exposed to frost.

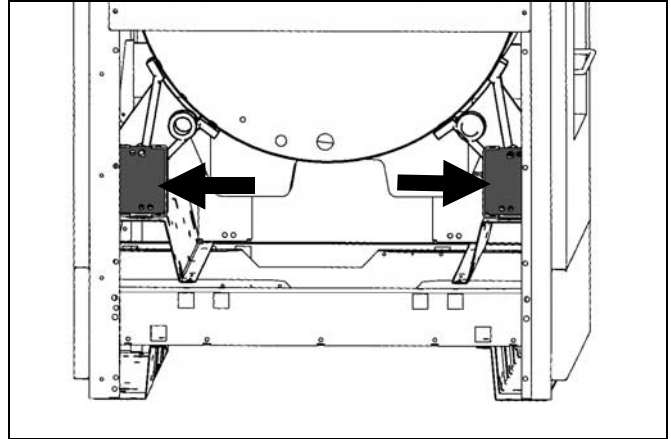
Transit fittings



The red-marked fixing brackets, 2 at the side front and 2 at the side rear for the transport verschlag are each secured with a hex screw (SW 17) and must be removed. The service panels are located on the machine.



The red marked transit fittings, 2 at the front and



2 at the rear are each secured with 3 hex screws (SW 17) and must only be removed once the machine has been installed in its final position. Ensure they are removed before commissioning.

To remove them detach the lower sides from the machine.

Transit fittings should be stored in a safe place for future use. They must be refitted if the machine is moved again.

It is essential that the machine is installed level, and is secured (see Installation diagram supplied).

Do not install the machine on carpeted flooring if the carpet pile blocks the ventilation gap at the base of the machine.

After installing and connecting the machine to the services ensure that all outer panels have been put back in place.

Installation

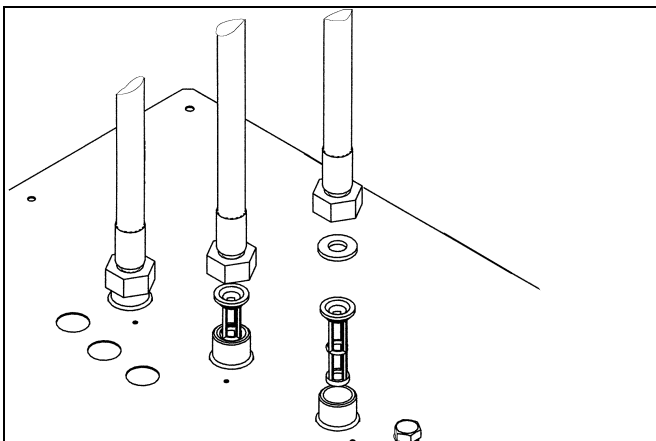
Plumbing

Connection to the water supply must be carried out by a suitably qualified and competent person in accordance with local and national water and safety regulations (DVGW in Germany) via a stopcock, (DIN 1988 approved in Germany).

To ensure the machine is correctly connected to the water supply and for drainage please observe the installation diagram and the installation instructions supplied with the machine.

Water inlet / drainage

The inlet pressure hoses supplied with the machine must be used for connection to the water supply.



Before connecting the inlet hoses to the machine the filters and seals supplied in the accessory pack must first be fitted.

If replacing an inlet hose only use a hose able to withstand a burst pressure of at least 70 bar, and a water temperature of at least 90°C. This also applies to all connection parts. Miele "Original" spare parts meet this requirement.

A water pressure flow rate of at least 1 bar, maximum 10 bar is essential to ensure the smooth operation of this machine.

Water taken into the machine must not exceed a temperature of 70°C.

Connection to cold water only

See the Installation diagram supplied.

Water connection Australia

To prevent back-syphonage, the water connection must be via an approved Dual-Check-Valve.

After installing and connecting the machine to the services ensure that all outer panels have been put back in place.

Installation

Electrical connection

All electrical work must be carried out by a suitably qualified and competent person in compliance with national and local regulations.

Please take note of the Wiring diagram and the Installation Diagram and instructions supplied. They are important for electrical connection.

The machine is supplied as standard for connection to a AC 3N 50 Hz electricity supply. The voltage, frequency are stated on the data plate.

Variants: 3 N AC 380-415 V 50-60 Hz
 3 AC 220-240 V 50-60 Hz

The electric heater rating is set ex-works to 24 kW (WS 5243),
30 kW (WS 5323).

The minimum suds level required for activating the heating given in mm column of water is 110 mm.

The motor is fitted with an overload protection switch.

Connection should be made via a suitable, approved isolator, with an on-off switch which is easily accessible for servicing.

WARNING
THIS APPLIANCE MUST BE EARTHED

Steam connection

Steam connection must only be undertaken by an authorised installer.

Please take note of the Installation Diagram and instructions supplied. They are important for steam connection.

Do not attempt to carry out any repair work to this machine yourself. Any damage or repair work may only be carried out by a suitably qualified and competent person in accordance with local and national safety regulations.

Please contact the Miele Service Dept. or your Miele supplier in the event of a fault or any damage to the machine.

After installing and connecting the machine to the services ensure that all outer panels have been put back in place.

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Telephone calls may be monitored and recorded to improve our service.